Sarwar Ebrahimi, Unit 7 Assignment, ISE 3rd class, 5th Semester

① Insert the data of a new employee called Julia Long, whose employee number is 11111. Her department number is not known yet. USE Sample; INSERT INTO employee VALUES (11111, 'Julia', 'Long', NULL);

② Create a new table called emp-dl-d2 with all employees who work for department dl or d2 and load the corresponding rows from the employee table. Find two different, but equivalent solutions.

USE Sample; CREATE TABLE emp-dl-d2 (emp-no INT NOT NULL, emp-fname CHAR(20) NOT NULL, emp-lnam CHAR(20) NOT NULL, dep-no CHAR(4) NULL); INSERT INTO emp-dl-d2 SELECT emp-no, emp-fname, emp-lname, dept-no FROM employee WHERE dept-no IN ('d1', 'd2'); OR : USE sample; SELECT emp-no, emp-fname, emp-lname, dept-no INTO emp-dl-d2 FROM employee WHERE dept-no IN ('d1', 'd2');

③ Create a new table of all employees who entered their projects in 2017 and load it with the corresponding rows from the employee table. USE Sample; CREATE TABLE employee-third (emp-no INT NOT NULL, emp-fname CHAR(20) NOT NULL, emp-lname CHAR(20) NOT NULL, dept-no CHAR(4) NULL); INSERT INTO employee-third (emp-no, emp-fname, emp-lname, dept-no) values SELECT emp-no, emp-fname, emp-lname, dept-no FROM employee WHERE emp-no IN (SELECT emp-no FROM works-on WHERE enter-date Between '01.01.2017' AND '12.31.2017');

④ Modify the job of all employees in project P1 who are managers. They have to work as clerks from now on. USE Sample; UPDATE works-on SET job='Clerk' WHERE job='Manager' AND project-no='P1';

⑤ The budgets of all projects are no longer determind. Assign all budgets the NULL value. USE sample; UPDATE project SET budget=NULL;

⑥ Modify the jobs of the employee with the employee number 28559. From now on she will be the manager for all her projects. USE Sample; UPDATE works-on SET job='Manager' WHERE emp-no=28559;

⑦ Increase the budget of the project where the manager has the employee number 10102. The increase is 10%. USE sample; UPDATE project SET budget=budget/10+budget WHERE project-no IN (SELECT project-no FROM works-on WHERE job='Manager' AND emp-no=10102.

⑧ Change the name of the department for which the employee named James works. The new department name is Sales. USE Sample; UPDATE department SET dept-name='Sales' WHERE (SELECT dept-no FROM employee WHERE emp-lname='James');

⑨ Change the enter date for the projects for those employees who works in project P1 and belong to department Sales. The new date is 12.12.2017. USE sample; UPDATE works-on SET enter-date='12.12.2017' WHERE project-no='P1' AND emp-no IN (SELECT emp-no FROM employee JOIN department ON employee.dept-no=department.dept-no WHERE dept-name='Sales');

⑩ Delet all departments that are located in Seattle. USE sample; DELETE FROM departments WHERE location='Seattle';

⑪ The project P3 has been finished. Delete all information concerning this project in the sample database. USE Sample; DELETE FROM works-on WHERE project-no='P3'; DELETE FROM project WHERE project-no='P3';

⑫ Delete the information in the works-on table for all employees who work for the department located in Dallas. USE sample; DELETE FROM works-on WHERE emp-no IN (SELECT emp-no FROM employee WHERE dept-no IN (SELECT dept-no FROM department WHERE location='Dallas');

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① Insert the data of a new employee called Julia Long, whose employee number is 11111. Her department number is not known yet. USE Sample; INSERT INTO employee VALUES (11111, 'Julia', 'Long', NULL);

② Create a new table called emp-d1-d2 with all employees who work for department d1 or d2 and load the corresponding rows from the employee table. Find two different, but equivalent solutions.

USE Sample; CREATE TABLE emp-d1-d2 (emp-no INT NOT NULL, emp-fname CHAR(20) NOT NULL, emp-lnam CHAR(20) NOT NULL, dep-no CHAR(4) NULL); INSERT INTO emp-d1-d2 SELECT emp-no, emp-fname, emp-lname, dept-no FROM employee WHERE dept-no IN('d1', 'd2'); Or: USE Sample; SELECT emp-no, emp-fname, emp-lname, dept-no INTO emp-d1-d2 FROM employee WHERE dept-no IN ('d1', 'd2');

③ Create a new table of all employees who entered their projects in 2017 and load it with the corresponding rows from the employee table. USE Sample; CREATE TABLE employee-third (emp-no INT NOT NULL, emp-fname CHAR(20) NOT NULL, emp-lname CHAR(20) NOT NULL, dept-no CHAR(4) NULL); INSERT INTO employee-third (emp-no, emp-fname, emp-lname, dept-no) ~~values~~ SELECT emp-no, emp-fname, emp-lname, dept-no FROM employee WHERE emp-no IN (SELECT emp-no FROM works-on WHERE enter-date Between '01.01.2017' AND '12.31.2017');

④ Modify the job of all employees in project P1 who are managers. They have to work as clerks from now on. USE Sample; UPDATE works-on SET job='Clerk' WHERE job='Manager' AND project-no='P1';

⑤ The budgets of all projects are no longer determind. Assign all budgets the NULL value. USE sample; UPDATE project SET budget=NULL;

⑥ Modify the jobs of the employee with the employee number 28559. From now on she will be the manager for all her projects. USE Sample; UPDATE works-on SET job='Manager' WHERE emp-no=28559;

⑦ Increase the budget of the project where the manager has the employee number 10102. The increase is 10%. USE sample; UPDATE project SET budget=budget/10+budget WHERE project-no IN (SELECT project-no FROM works-on WHERE job='Manager' AND emp-no=10102.

⑧ Change the name of the department for which the employee named James works. The new department name is Sales. USE Sample; UPDATE department SET dept-name='Seales' WHERE (SELECT dept-no FROM employee WHERE emp-lname='James');

⑨ Change the enter date for the projects for those employees who works in project P1 and belong to department Sales. The new date is 12.12.2017. USE sample; UPDATE works-on SET enter-date='12.12.2017' WHERE project-no='P1' AND emp-no IN (SELECT emp-no FROM employee JOIN department ON employee.dept-no=department.dept-no WHERE dept-name='Sales');

⑩ Delet all departments that are located in Seattle. USE sample; DELETE FROM departments WHERE location='Seattle';

⑪ The project P3 has been finished. Delete all information concerning this project in the sample database. USE Sample; DELETE FROM works-on WHERE project-no='P3'; DELETE FROM project WHERE project-no='P3';

⑫ Delete the information in the works-on table for all employees who work for the department located in Dallas. USE sample; DELETE FROM works-on WHERE emp-no IN (SELECT emp-no FROM employee WHERE dept-no IN (SELECT dept-no FROM department WHERE location='Dallas');